

Title (en)

Plasma ARC cutting torch having extended lower nozzle member.

Title (de)

Plasmabogenschneidbrenner mit langem Unterdüsenkörper.

Title (fr)

Torche à arc de plasma pour le coupage avec un élément de buse inférieur allongé.

Publication

**EP 0426289 A2 19910508 (EN)**

Application

**EP 90310021 A 19900913**

Priority

US 42998989 A 19891101

Abstract (en)

A plasma arc cutting torch (10) is disclosed which includes a nozzle assembly (12) below the electrode (14) for injection of water around the plasma flow so as to constrict the arc. The nozzle assembly (12) includes upper and lower disc like nozzle members (43), (44) which are spaced apart to define a water gap therebetween and the members (43), (44) include aligned bores (40), (42) for permitting the plasma to flow therethrough to the underlying workpiece. The lower nozzle member (44) is of extended length, and its forward or lower end portion is beveled to define a frusto-conical exterior surface (52), so as to permit the torch (10) to be positioned closely adjacent the workpiece when making beveled cuts and so as to achieve the predetermined standoff which maximizes the quality and speed of the cut.

IPC 1-7

**H05H 1/34**

IPC 8 full level

**B23K 10/00** (2006.01); **B23K 9/29** (2006.01); **H05H 1/34** (2006.01)

CPC (source: EP KR US)

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Cited by

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